

# MSDS

## MATERIAL SAFETY DATA SHEET

Last changed: 12/03/02

Internal No.: 01

Replaces date: 03/02/00

# ANTIFOULING SEAGUARDIAN

## 1. IDENTIFICATION OF SUBSTANCE AND COMPANY



<input checked="" type="checkbox"/>	Approved for use	<input type="checkbox"/>
<input type="checkbox"/>	Approved for laboratory use	<input type="checkbox"/>
<input type="checkbox"/>	Approved by Jotun AS	<input type="checkbox"/>

<b>TRADE NAME</b>	ANTIFOULING SEAGUARDIAN
<b>APPLICATION</b>	Antifouling paint
<b>FORMULA</b>	Xxxx

<b>ART No.</b>	PM3051
----------------	--------

<b>Producer/importer</b>	JOTUN-HENRY CLARK LTD.
<b>Address</b>	Flixborough, Scunthorpe
<b>Postal code</b>	North Lincolnshire DN15 8RR
<b>Country</b>	UK
<b>Telephone</b>	Å44 1724 40 00 00
<b>Fax</b>	Å44 1724 40 01 00
<b>Contact pers.</b>	QA/Environm. dept., JOTUN A/S, NORWAY
<b>Responsible</b>	QA/Environm. dept., JOTUN A/S, NORWAY
<b>Emergency Telephones</b>	Contact the National Poison Center

## 2. COMPOSITION/INFORMATION ON INGREDIENTS



No	Ingredients name	CAS No.	Conc. (wt%)	Classification
1	DICOPPER OXIDE	1317-39-1	25-50	Xn, , ; 22-36
2	XYLENE, mixed isomers	1330-20-7	10-25	Xn, , ; ,10-20/21-38
3	ROSIN	8050-09-7	2,5-10	Xi, , 43
4	AROMATIC HYDROCARBONS C9-C12	64742-95-6	2,5-10	Xn, ,N; ,10-37-65-51/53
5	TRICHRESYL PHOSPHATE	1330-78-5	1-2,5	Xn, ,N; ,21/22-51/53

Legend: TÅ=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, E=Explosive, O=Oxidising, FÅ=Extremely flammable, F=Highly flammable, N=Dangerous for the environment

### INGREDIENT COMMENTS

Substances presenting a health hazard within the meaning of the current issue of the CHIP Regulations or assigned occupational exposure limits.

## 3. HAZARDS IDENTIFICATION



FLAMMABLE. HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. MAY CAUSE SENSITIZATION BY SKIN CONTACT.

For potential danger for the environment, see section 12.

## 4. FIRST AID MEASURES



:

1 / 6

:

**MSDS**  
**MATERIAL SAFETY DATA SHEET**

Last changed: 12/03/02

Internal No.: 01

Replaces date: 03/02/00

# ANTIFOULING SEAGUARDIAN

## GENERAL

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

## INHALATION

Keep the patient warm in a quiet place with fresh air. If breathing has stopped, administer artificial respiration. If unconscious place in the recovery position. Seek medical advice.

## SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water or use an appropriate skin cleaner. Do NOT use solvents or thinners.

## EYE CONTACT

Remove any contact lenses. Hold the eyelids apart. Irrigate copiously with clean, fresh water for at least 10 minutes. Seek medical advice if symptoms persist.

## INGESTION

DO NOT INDUCE VOMITING. If accidentally swallowed obtain immediate medical attention. Keep at rest. Seek medical advice.

## MEDICAL INFORMATION

Risk of chemical pneumonia by aspiration. Keep attention: danger of lung damage. General health examination. Professional evaluation of the work station.

## 5. FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray. Not to be used: water jet.

### FIRE AND EXPLOSION HAZARDS

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be a hazard to health.

### PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

The personal protective equipment required is provided in section 8. Professional fire-fighters are required to use an air-fed system when dealing with major fires.

### OTHER INFORMATION

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

### OTHER INFORMATION

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Place in container for disposal according to local regulations (see section 13). Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite and diatomaceous earth. Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environmental Agency.

## 7. HANDLING AND STORAGE

### HANDLING ADVICE

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should not be used in vicinity of open flames or other sources of ignition. Use explosion-proof electrical equipment. The product may charge electrostatically. Always use earth (ground) wire when transferring from one container to another. Personnel should wear anti-static clothing and footwear. Floors should be electrically conductive. Keep container tightly closed. Exclude sources of heat, sparks and open flame. Use non-sparking tools. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.

# MSDS

## MATERIAL SAFETY DATA SHEET

Last changed: 12/03/02

Internal No.: 01

Replaces date: 03/02/00

# ANTIFOULING SEAGUARDIAN

Smoking, eating and drinking are forbidden in the work area. For personal protective equipment see Section 8. Always keep in containers made of the same material as the supply container. Never use pressure to empty the container, it is not a pressure vessel. Electrical equipment should be protected to appropriate standards. The Manual Handling Operations Regulations may apply to the handling of containers of this product.

### STORAGE

Store in accordance with the regulations for flammable materials. Observe the label precautions. Store in a dry, cold and well ventilated place away from sources of heat, ignition and direct sunlight. Store separately from oxidising agents and strongly alkaline and strongly acidic materials. No smoking. Containers which are opened should be properly resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredients name	CAS no.	TLV value	TLV year
DICOPPER OXIDE	1317-39-1	1,0 mg/m <sup>3</sup> ; (Cu)	
XYLENE, mixed isomers	1330-20-7	441,0 mg/m <sup>3</sup> ; Sk	
AROMATIC HYDROCARBONS C9-C12	64742-95-6	125,0 mg/m <sup>3</sup>	

### EXPOSURE CONTROL

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Spray mist contains all substances of the product and must not be inhaled. OELs are taken from the current version of EH40 (by Health & Safety Executive, UK).

### RESPIRATORY PROTECTION

When use of roller or brush, then charcoal filter is sufficient. Use respiratory protective mask with charcoal and dust filter (A2/P2) when spraying this product.

### EYE PROTECTION

Eye protection designed to protect against liquid splashes should be worn.

### HAND PROTECTION

Use PVA/viton gloves. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. Never apply barrier cream to contaminated skin.

### PROTECTIVE CLOTHING

Wear anti-static clothing made of natural fibre or of heat resistant synthetic fibre. When spraying use suit covering the whole body.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.		
Colour:	Light red. Dark red.		
Odour:	Organic solvent.		
Solubility:	Organic solvent.		
Melting point/range:	-	Density:	2,0 - 2,2
Expl. limit LEL-UEL%:	1.10 - 7	Solubility in water:	
Vapour pressure:		Saturation conc.:	
Decomposition temp.:		Rel. dens. sat. air (air=1):	
pH solution:		Boiling point/range:	138 - 144°C
Flash point:	35°C	pH concentrate:	-
Molar weight:		Viscosity:	120 - 160 cP
Ignition temp.:	500°C	Odour threshold value:	
Rel.vap.dens.(air=1):		Rel. evap. velocity:	
Air reactive:		Water reactive:	

## 10. STABILITY AND REACTIVITY

:

3 / 6

:

**MSDS**  
**MATERIAL SAFETY DATA SHEET**

Last changed: 12/03/02

Internal No.: 01

Replaces date: 03/02/00

# ANTIFOULING SEAGUARDIAN

## STABILITY

Stable under recommended storage and handling conditions (see section 7).

## MATERIALS TO AVOID

Keep away from oxidising agents, strongly alkaline and strongly acidic materials to prevent the exothermic reactions.

## HAZARDOUS DECOMPOSITION PRODUCTS

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

## 11. TOXICOLOGICAL INFORMATION

### GENERAL

There are no toxicological data available on the product itself.

### INHALATION

Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous system. Symptoms and signs include headache; dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Inhalation of smoke (from a fire or from welding on dicopper oxide coated material) may give symptoms like influenza.

### SKIN CONTACT

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to the product's defatting properties. May cause sensitization by skin contact.

### EYE CONTACT

Splashes in the eyes may cause irritation and reversible local damage.

### INGESTION

Absorbed by the gastric intestinal system. May cause liver and kidney damage. Accidental ingestion may cause vomiting and abdominal pains. Risk of chemical pneumonia.

## 12. ECOLOGICAL INFORMATION

### DEGRADABILITY

Aromatic hydrocarbons C9-C12: Not easily degradable.

### ACCUMULATION

Aromatic hydrocarbons C9-C12: Potential to bioaccumulate.

### ECOTOXICITY

Aromatic hydrocarbons C9-C12: LC50 (fish) = 1-10 mg/l.

### OTHER INFORMATION

Do not discharge the product to sewer or drains. The product contains aromatic hydrocarbons C9-C12 labelled "Dangerous for the environment".

## 13. DISPOSAL CONSIDERATIONS

### GENERAL REGULATIONS

Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Do not allow into drains or water courses. Waste must be disposed of at approved landfill/waste storage or treatment facility.

### CATEGORY OF WASTE

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVE, SEALANTS AND PRINTING INKS. 08 01 02 Waste paints and varnish free of halogenated solvents.

## 14. TRANSPORT INFORMATION

:

4 / 6

:



# MSDS

## MATERIAL SAFETY DATA SHEET

Last changed: 12/03/02

Internal No.: 01

Replaces date: 03/02/00

# ANTIFOULING SEAGUARDIAN

that the requirements of relevant legislation are compiled with. The information in this MSDS provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. Further information and relevant advice can be found in: The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992:2839). The Control of Substances Hazardous to Health Regulations 1988 (SI1988:1657). The Highly Flammable Liquids and liquefied Petroleum Gases Regulations 197 (SI 1972:917). The Manual Handling Operations Regulations 1992 (SI 1992:2793). Storage of Flammable Liquids in Containers, HS(G)51. Storage of Packaged Dangerous Substances, HS(G)71. The selection, use and maintenance of respiratory protective equipment: A practical guide HS(G)53.